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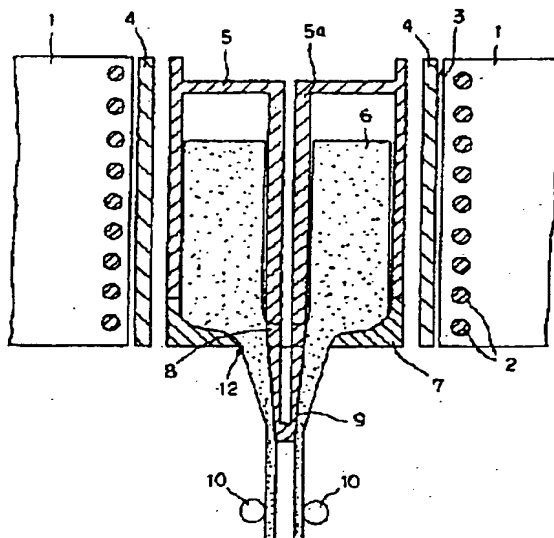
APPLICATION DATE : 30-11-90
APPLICATION NUMBER : 02340582

APPLICANT : TOSHIBA CERAMICS CO LTD;

INVENTOR : TOMOMITSU HIDEYUKI;

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TITLE : DEVICE OF PRODUCING QUARTZ
GLASS TUBE



ABSTRACT : PURPOSE: To suppress damage on the surface of glass even in increase of gas evolved during use and to improve yield by forming a SiC coating film having specified bulk density and thickness on the surface of mandrel.

CONSTITUTION: A coil 2 is laid in a furnace 1, the furnace 1 is provided with an opening part 3 opened in the vertical direction and the opening part 3 is equipped with a case 5 through a heating element 4. A cylinder 5a for vent is laid in the axial direction (vertical direction) at the central part of the case 5. A mold 7 to store molten glass 5 together with the case is set at the bottom of the case 5. A cylindrical core 8 is laid at the lower part of the cylinder 5a of the case 5. A mandrel 9 to pass a gas in the molten glass is attached to the lower part of the core 8. The surface of the mandrel 9 is provided with a SiC coating film having $0.5\text{-}3.1\text{g/m}^3$ bulk density and $10\text{-}500\mu$ thickness.

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